

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113378 A3

(51) International Patent Classification⁷: **C07K 14/47**,
7/06, 16/18, A61K 38/17

(21) International Application Number:
PCT/GB2004/002558

(22) International Filing Date: 16 June 2004 (16.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0313892.2 16 June 2003 (16.06.2003) GB

(71) Applicant (for all designated States except US): **HAN-
NAH RESEARCH INSTITUTE** [GB/GB]; Ayr KA6
5HL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WILDE, Colin**,
James [GB/GB]; c/o Hannah Research Institute, Ayr KA6
5HL (GB). **PEAKER, Malcolm** [GB/GB]; c/o Hannah
Research Institute, Ayr KA6 5HL (GB).

(74) Agent: **MURGITROYD & COMPANY**; Scotland
House, 165-169 Scotland Street, Glasgow G5 8PL (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
17 March 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CONTROL OF LACTATION AND PEPTIDES THEREFORE

(57) Abstract: The present invention provides three novel peptides identified from cow's milk and further to compositions and methods containing the same for use in the modulation of the milk secretion rate of a lactating cell. Specifically, at least one of the peptides provided by the invention can be used to control milk secretion in lactating animals, including man. The present invention further extends to antibodies directed to the peptides of the invention, said antibodies also having utility in the modulation of milk secretion.

WO 2004/113378 A3

BEST AVAILABLE COPY

BEST AVAILABLE COPY